

Miles: This is a letter I received this week from a reader. In it he makes a claim of being the first to say these things, but he isn't. Maybe the best, but not the first. You will remember that I have gotten other letters of this sort from the mainstream, though I almost never publish them. In the early years I got an extremely flattering one from Tahir Yaqoob of Johns Hopkins and NASA, and although he didn't allow me to publish those private comments, he did end up toning them down and abbreviating them for the introduction he wrote for my first book. I also published an anonymized set of emails from another mainstream physicist, saying similar things. I have gotten many glowing reviews from people at CuttingThroughtheFog and other forums, some of them signed, but few were from scientists or engineers. And the signed blurbs on my three subsequent science books were glowing in the extreme, most of them from engineers or scientists. Several of my most popular papers have garnered very positive responses from accredited people—for instance pilots responding to my paper on lift—and I have published those responses. But in general almost no one from mainstream academia has wanted to go on record under their own name, and I decided not to publish any more anonymous commentary, since I had no way to prove it was genuine. I was under an obligation to protect my readers. And so it was counterproductive. Over the years I have gotten many of these testimonials like the one below which I collect for my own purposes. But this one was so good I couldn't sit on it.

Blowing my Top

I would like to begin by apologizing to all readers and to myself for writing this anonymously. I find it as infuriating as anything else here that I have to, but there is no way around it. I am a professor in the hard sciences at an Ivy League university, and many of my colleagues and some of my superiors hate Mathis with an insane fervor. They would not overlook any promotion of him by me if they found out about it. My life would become a living hell. I have a career and family and I cannot jeopardize that at this time. However, I also cannot continue to keep quiet. I think I at least have the courage to state things as they beg to be stated.

Let me state for the record that I don't know Mathis. Never met him, never talked to him on the phone, never emailed him before this. I just wrote this up in a fit of anger a few nights ago and sent it to him, mostly for my own benefit. I needed to get it off my chest. Plus, it occurred to me after writing it that at least I could claim to be the first one to say it, even if I got no credit for it. At least I could get the credit for it in my own mind, which is something.

This was recently brought to a head for me when I saw a youtube video by Sabine Hossenfelder on the [subject of science coming to an end](#). I can always rely on Hossenfelder to infuriate me since she is so consistently disingenuous, but this one really took the cake. She is selling John Horgan's 1996 book *The End of Science*, accepting his ridiculous claim that science is almost finished. Horgan is one of those *Scientific American* stuffed shirts that Mathis so loves to skewer, and that book was so bad it tends to confirm Mathis's claim that these people are actual agents, locking the field down on purpose to suit their masters. Horgan couldn't have been doing that with Mathis in mind in 1996 since he wasn't publishing in science then, but I think Hossenfelder is using this subject to bury Mathis on purpose. She claims that all the sciences have spun down and nothing has really happened in the last twenty years.

No, nothing, Sabine, except Mathis coming out of left field and rewriting all of physics back to the time of Galileo. We have just witnessed the greatest revolution in the history of science and these people like Hossenfelder are paid to stand around at Youtube and pretend it didn't happen. I mean, c'mon, let's be honest, nothing like this has ever happened, or even gotten

close to happening. I don't know who Mathis is or where he came from, but the papers speak for themselves. Any one of the best ones would be enough to make him the greatest physicist of the 20/21 centuries but there are literally hundreds of them.

I have to admit that at first I thought Mathis was AI. This is the kind of thing they have been promising from AI for decades: machines that are so smart they make us look like a bunch of chimps. A computer program with an IQ of 500 that would rewrite all of science overnight, leaving human achievement in tatters. Some cyborg that could enter any field with no prior knowledge of it, but due to speed in collating facts it would see things no one ever had, cleaning up centuries of mistakes in a few nanoseconds. But I no longer think that. Although that is basically what we have seen from Mathis, it took years, not nanoseconds, and it was done with a human flair I don't think any machine could fake. Deep Blue and then Stockfish made the world's greatest chess players look like idiots, but it didn't do that while cracking jokes, preening, and accusing them of being frauds and agents. If Mathis had been created as some sort of computer project there would be no reason to make him a political revolutionary as well, an artist, or a conspiracy theorist. In fact, there would be every reason NOT to do that. AI is obviously a government project so there is no chance they would make their lead science cyborg wildly anti-government. You will say they lost control of him but how do you lose control of a computer program? You can always pull the plug.

And then there's the fact that AI has been such a crushing disappointment in all other ways. Nothing AI has done or is doing is on this level. An AI that had just rewritten all of physics should be doing similar things in other fields but we don't see anything like that.

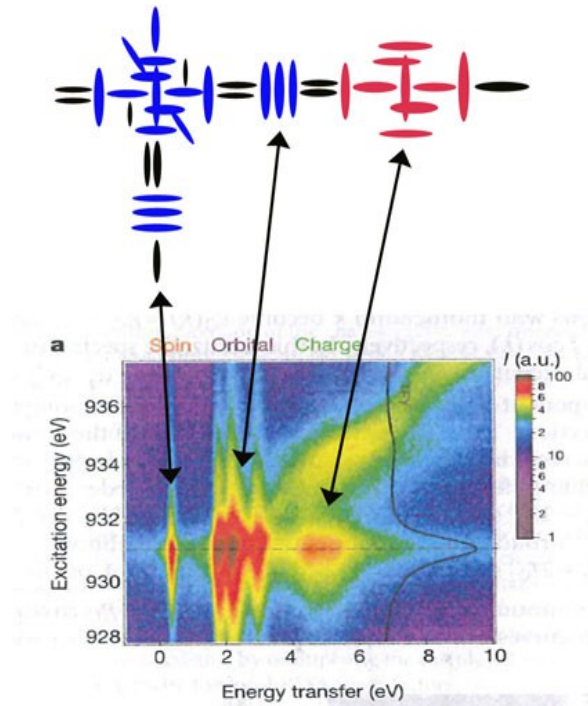
If Mathis was created by a roomful of computer guys do you think they would allow his sites to look like they do? His sites are so old-school it is laughable. He has no graphics and even his diagrams are pre-1990. We have seen him draw some of his diagrams by hand, with a pencil! On his art site he constantly promotes the Amish. No way this came out of Google or IBM.

[Besides, although I hadn't talked to Mathis when I wrote this, I have since had a long chat with him on an untraceable line. I have a big IQ myself, having scored 800 on math on both the SAT and GRE. My fluid intelligence has been tested at 150+, and I have read all of Mathis' papers, many of them a dozen times each. I put him through his paces and he didn't drop or even bobble the ball once. If he is a project front he has memorized all these papers down to the last word, which seems unlikely if he is just a pretty-boy artist. I have to admit I got the feeling of being in the presence of a greater intelligence, something I have never said before. One other thing may interest you: although he knows his own stuff cold, when he doesn't know something he doesn't know it AT ALL. Not really surprising, since we could all say the same. But I see that as another indication he is human and not a project. If he was being fed information from an earpiece for instance he should be able to come up with something on just about any topic immediately. But there were large parts of my field he knew absolutely nothing about. Just what we would expect from an artist that came into science from the outside.]

At the top of the list of earth-shattering things Mathis has done let's start with his diagramming of all the nuclei of the elements. It would be impossible to overstate the importance of this or the sheer genius of it. [With one paper](#) Mathis destroyed the entire subfield of physical chemistry and all those textbooks are now up for a general pulping. Making the nucleus a

channeler of charge changes absolutely everything in dozens of fields not just physics but chemistry, biology, astronomy, medicine etc. This is so big it dwarfs all other scientific discoveries in the past two centuries, possibly ever. I can't honestly think of anything Newton did that is bigger and yet it is being utterly ignored. The mainstream hasn't even found it worthy of comment.

One of the high points of these nuclear papers for me is [his second paper on the orbiton](#), called *The Charge Profile of Sr₂CuO₃*, where he uses his nuclear diagrams to match RIXS data:



I still gasp every time I see that, it is so beautiful and so unassailable. And what did Schlappa et al have to say in response to that? Nothing, of course. Like everyone else in the mainstream they just pretended it never happened.

We see the same thing regarding his papers on the subject of unification, which by itself would make anyone else the greatest scientist of all time. Mathis has unified [Newton's Gravitational Equation](#), Coulomb's Equation, [Maxwell's Equation](#), and the [Lagrangian/Hamiltonian](#), but my favorite in this series is [his unifying of Gauss' Electrical Law](#) with his Gravitational Law in ten lines of math.

$$\begin{aligned}
 g &= \epsilon_0/c \\
 E &= Q/4\pi R^2\epsilon_0 \\
 E &= Q/4\pi R^2gc \\
 \oint E \cdot dA &= Q/\epsilon_0 \\
 \oint E \cdot dA &= 4\pi R^2gcE/\epsilon_0 \\
 g &= GM/R^2 \\
 \oint E \cdot dA &= GM4\pi R^2cE/R^2\epsilon_0
 \end{aligned}$$

$$\oint \mathbf{E} \cdot d\mathbf{A} = GM^4\pi E/g$$

multiply through by g/E .

$$\oint \mathbf{g} \cdot d\mathbf{A} = -4\pi GM$$

That is like watching Mozart compose.

In a similar way Mathis explained dark matter as charge in three lines:

$$e = 1.602 \times 10^{-19} \text{ C}$$

$$1\text{C} = 2 \times 10^{-7} \text{ kg/s (see definition of Ampere to find this number in the mainstream)}$$

$$e = 3.204 \times 10^{-26} \text{ kg/s}$$

If the proton is given a charge of e , that's 35,000 electrons masses per second. And it comes out to **19** protons per second, or 95% of the total field.

[Remember when a big physics forum on the web](#) was asked to comment on that and the top commenters replied that those weren't equations? The moderator, a tenured professor at a major university, backed them up on that.

Another favorite of mine is Mathis's [solution of Bode's Law](#), where he uses high school algebra to calculate perturbations among the planets, showing they orbit where they do because of EM forces between them. It is such an elegant solution it makes your head spin. If anyone in a major university program had come up with that, he or she would be famous by Friday, but we haven't heard the slightest peep on it.

The first paper of Mathis that really blew my mind was [his paper on Superposition](#) where he not only tears David Albert to tiny shreds—which is always nice to see—but he introduces us to his stacked spin model. He shows us what we should have seen from the beginning: multiple spins can't take place in the same 3 or 4-vector due to the rules of precession. New spins have to stack beyond the influence of the inner ones. This not only beautifully explains the detectors in sequence mystery, it provides the physical creation of the wave and wavefunction. This segues directly into [his quantum spin equation](#), where these stacked spins explain the relative size of the electron and proton, also explaining the architecture of all mesons. Again, that by itself would have made anyone else more famous than Einstein, but what did it do for Mathis? Nothing.

I have been told that nobody knows about Mathis. He is lost on the internet, the victim of his own bad PR. Except that that is obviously not true. [Many of his papers have been superviral](#) for years, outranking the big universities and even Wikipedia. Which is another first I don't have time to get into. You don't get numbers like that by just being the butt of a few jokes, as we are led to believe. If I were to believe my colleagues, all Mathis's traffic is college students dropping by to chuckle at the sheer stupidity of it all. But we all know that isn't true. Anyone dropping by Mathis' sites for a chuckle would sober up immediately, the sheer stupidity being all on their end.

I generally avoid discussing Mathis with my colleagues since I can't afford to give myself away but I do keep my ears open. The scuttlebutt is delicious, especially when Mathis has just attacked some big name like Guth or Anderson or Gross. [The BICEP fiasco](#) was especially rich and I can tell you that Mathis's punches definitely land hard. I can't say the same for the return punches, which are exactly as pathetic as you would imagine. I had minimal respect

for most of my colleagues to start with but after 20 years of listening to them gripe and misdirect about Mathis my belief in humanity is all but gone. Like Schrodinger, I begin to regret I have been a part of it.

Speaking of Gross, [that old paper on Asymptotic Freedom](#) always makes me chuckle, especially where Mathis tears up Gross's Nobel Lecture at the end. No computer program could ever embarrass a person the way Mathis does. He has this unfailing ability to hit the jugular from any point on the court, which ability is just as amazing as anything else he does.

We see the same sort of death-pinning in [Mathis's analysis of electron bonding](#), where he makes the inventors of that look like naughty children. He circles what we should have all seen but didn't: the electrons are moving the wrong way. In the bonds they are moving opposite to their own definitions. And its because these old guys didn't have the charge field to explain bonding, so they had to make this all up on the run. They didn't even bother to give the theory the most basic continuity. In this I have to think Mathis is MORE perceptive than any computer could be, since computers don't have eyes. They probably aren't trained to spot top-level contradictions like this, which would seem too obvious to a computer. Like a human, a computer would assume a contradiction of this magnitude must be on purpose. But Mathis sees everything. He doesn't let anything pass. He has spotted more of these "hiding in plain sight" clues than all the rest of us put together. Is that because he is artist or does he have some next-generation intelligence humanity hasn't seen before? I can't say and I don't think anyone else can, either. All we can say is that it happened and there is no reason to pretend it didn't.

[I actually tried to get to the bottom of this when we were on the phone. I wanted to ask him about his paper on the [Pressure Flow Hypothesis](#), which I see as a weird stand-alone paper. He has many of these where he seems to enter a field from nowhere and suddenly become the smartest person in history on it. Just off the top of my head he did it with NMR as well, and solid state, and geophysics. From what I gathered he had never studied plant biology or seen that textbook before writing that paper in two days. He confirmed to me that he pulled the book off the shelf of his girlfriend's father on a road trip, the father being a retired professor of cell biology. Simply to pass time he began to read the book and the rest is history. In a matter of hours he had rewritten the entire field to include charge, totally revolutionizing transport in plants. In his own mind it was no big deal, since he already had the charge field in his head. All he had to do is apply it to the problems he found in the textbook. Yes, but. In my experience, it doesn't work like that. I have never heard of anything like that, or read of anything like that in history. You don't just pull a textbook off a shelf and rewrite the whole subject overnight. All Mathis would say is, "I don't know. I see things and I start writing. I already had the greater insight about the charge field, so it was pretty obvious to me the plant had to be using rising charge to move things up."

As I talked to him I began to see one difference from the rest of us. Most of us have pretty high levels of self-doubt and that stop us from doing things we might otherwise do. But nothing stops Mathis. He seems to feel no inertia and almost no self-doubt. Every idea leads to immediate action with no hesitation. So these papers just pour out of him with zero resistance. Is that a function of intelligence or of something else? Can that sort of confidence be explained just as a series of childhood successes? I don't think so, since many of us had equal or greater successes. By all rights I should have been just as confident as Mathis at age 30 or 40, and I thought I was in most ways. But these papers never poured out of me.

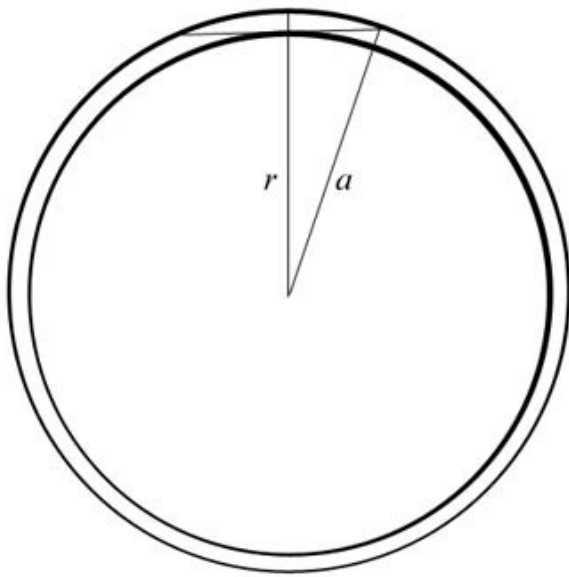
Why? I don't know but at least I have the honesty to admit that is how it is. The truth is more important than my ego. Science is more important than my ego. I may eventually do something important, but it won't be done by blocking Mathis or stealing from him.]

I think many of us thought that [the Solar Cycle paper](#) would allow Mathis to finally break through the wall. When he published that naive pencil drawing of Cycle 25, circling the points that were planetary conjunctions, I thought "this is it. Either he misses those and they use it to try to bury him again, or he hits them and the flood gates release." But somehow it didn't work out like that. Instead the Air Force flew in and began faking all the data, so much so that we now don't know what is actually happening. Mathis hit them all on the nose, but it didn't matter. The mainstream just turned up the volume on the lies, claiming to hit numbers on the head while missing them by 100% or more. Here again, it is just embarrassing to watch it unfold, as these NASA and NOAA people melt into puddles before our eyes, like the Wicked Witch. The only thing we lack is flying monkeys, though I guess we could say the Air Force guys fit that description.

I think another visual highlight of Mathis's papers is when he somehow spots the fact that the width of a band in a picture of the Solar corona matches the width of [Alexander's band in the rainbow](#), proving the rainbow is a projected image of the Sun. I remembering audibly gasping the first time I read that. It is another one of those Eureka moments so rare everywhere else but so common in Mathis's papers. Most physicists would give their left arm to get just one of those in a lifetime, but Mathis seems to get one about once a month.

As another obvious example, I think of his noticing [in his quark paper](#) that beta decay could be explained by a positron overwriting an electron's track backwards, making beta not a decay but a simple collision and reversal of outer spins. I know for a fact I was not the only one flipped by that proposal, since I have seen it discussed by the mainstream as a possibility (without of course giving Mathis any credit for it).

What I haven't seen anyone in the mainstream comment on is another one of the miracle passages in his paper on [Atmospheric Pressure](#), where he creates this simple diagram to calculate the overall weight of the field:



“If r is the radius of the Earth, and a is the radius of the atmosphere at 50 km, then we can find the third leg of the right triangle very easily. It is 800 km, and we double it to find the full width: 1600 km. This means that the atmosphere has 32 times $\{1600/50\}$ more lateral freedom than vertical freedom. But that is only in one plane. If we make our diagram three dimensional, we must square the lateral freedom, giving us 32^2 . If we assume this allows the gas to express only $1/32^2$ of its weight, then we find a downward field of about .009550 m/s^2 $\{9.78/32^2\}$.”

That is a miracle because in [an earlier paper](#) on the moon he used equally simple math to calculate the charge field emitted by the Earth as a fraction of gravity, finding the same number. The force up equals the force down, explaining why the atmosphere is weightless. These are simple calculations, but no one had ever thought to do them before. No one would think of comparing an acceleration to an acceleration like that directly.

Then there are Mathis' papers on the [Fine Structure Constant](#), another miracle of compressed problem solving. I noticed in the sidebar of Hossenfelder's video that [Matt O'Dowd at PBS Spacetime](#) is selling this as a big unsolved problem, purposely overlooking the fact Mathis solved it years ago. Mathis has shown it isn't a constant or anything to do with fine structure, it is a charge to mass transform that comes out of bad early equations by Rutherford and others, especially the impact parameter equation in [Rutherford's scattering equations](#). Every couple of years Mathis comes back to problem and makes it even simpler, leading us to wish Feynman were around to see it.

Speaking of Feynman, another thing I go back to again and again is Mathis' absolute destruction of his book *Six Not So Easy Pieces*. It is more entertaining than *Star Wars*, watching Mathis rip him into tiny pieces on the page, leaving none of the six standing. The most impressive and important is [the destruction of the orbital equations](#), where Mathis proves the standard proof is a huge fudge, with basic misuses of the calculus as well as obvious substitution errors. You find yourself shaking your head at the sheer chutzpah of it all, as well as the fact none of us ever saw it before. [In another paper](#) Mathis does the same thing to Lev

Landau, bombing his proof of the same equations in the same way. Once Mathis circles the cheats for us, the whole thing unwinds into a very ugly pile of finessed math. I almost feel nasty getting to watch such a thing.

But this is what Mathis does. We don't know how he does it, but again and again he attacks sacrosanct equations as if they have no pedigree, as if they were a pile of meat. He tears the [Schrodinger Equation](#) down to bare ground, showing it is nothing but a load of ugly kludges, then rebuilds it on his own terms. He does the same thing with the Balmer and Rydberg equations, the [Boltzmann equations](#), the [Rayleigh equations](#), and [even the proofs of the calculus itself](#). Everything he looks at he sees through like it is glass, breaks it down, and rewrites it, cleansing it, simplifying it, and putting it in terms of his charge field. By the time he has finished the world makes sense again. Science has been turned from an ugly mess, filthy from the grubby hands of a thousand confused theorists, to a shiny new thing, buffed and polished and now in accord with all the other new things he has discovered. How anyone could fail to be thrilled by this is beyond me.

[Another thrilling paper is the one](#) where Mathis rips up some pompous PhDs on youtube, selling mystification around polarizers. This is the third in his series on Superposition, and he does the same chop job on a youtube video in the second paper in that series. But this third paper is even better, since he catches them doing simple math wrong near the end, just to confuse their audience. They say we should expect 75% of photons to pass a filter at 22.5 degrees. Mathis points out that is false, since high school trig requires we use a sine, giving us an expectation of .924. But given the stacked polarizers, we have to double that manipulation, giving us .848—which is the actual percentage of photons that pass. You would think these guys would pull down that video and kill themselves, but they didn't. It is still up. That is just one more reason I finally blew my top. No matter how many hundreds of times Mathis crushes these people, they keep reforming from their own goo and continuing on as if nothing happened. They can't seem to get the message they are dead. My entire field is composed of these unembarrassable zombies, clogging up every question. As the guy says in *The Hangover*, “you are literally too stupid to insult”. And the other guy says “thank you”.

Once I got started here, I could see that what I really needed to do to make myself feel better is to promote these papers like they should have been promoted years ago. The silence is criminal and I really want to fill it. I have been witnessing this tragic crime for over a decade now and it is wearing a hole in my head. I feel like someone is judging our whole field for this crime and that by remaining silent I share that guilt. It has really been eating away at me, especially over the past three years. Witnessing this Solar Cycle thing is just too much for any honest person. I kept thinking eventually the mainstream would be forced to admit these things so many of us are thinking and the pressure in my mind would subside, but that hasn't happened. The longer this goes on the more tragic it is. But it really does help to say them, even if I am just talking to myself. Seeing the words on the page confirms to me they are the right words, the words I have been waiting to read somewhere.

I also have a wild dream that maybe I can break the dam somehow by putting these words on the page. If just one person speaks the truth, the bubble will burst and others will see it can be done.

Miles here again. You can see why I couldn't let that rot in my inbox. He said some other things but that is enough for now. As you see, he wanted to rewrite it after talking to me, and I let him do that. It

makes it stronger and doesn't make it much harder to read. It was his final “wild dream” that really resonated with me, and that is mainly why I decided to publish this. I hope that others reading this will continue his project, helping me promote my body of work to the world, either as a whole or by promoting individual papers. It occurred to me that no one is promoting me under their own name because there is nowhere to do it. If you wanted to do that, where would you do it? Do you think *Scientific American* or *Nature* is going to print a glowing review of me? No. Even if someone got up the courage to submit, no place is going to publish it. Just as I was blocked from publishing, anyone mentioning me positively will be blocked.

I can now see that I will never be promoted by the mainstream and that I will continue to be blocked to their last dying breaths—for pretty obvious reasons. This is the end for them. And due to the ever-increasing control of the internet by Google and other entities, I cannot expect promotion even from the margins anymore. It looks like if there is going to be any promotion it is going to have to be done from here. Not an optimal method, I admit, but we are not being given any choice. I am being censored in all other channels, and even CuttingThroughtheFog has imploded. So my hope is that this will jog something in the head of some professor emeritus somewhere who has nothing to lose, leading him/her to speak out. It only takes one big boulder loosing to start an avalanche.